

**New Hampshire Department of Transportation
Bureau of Materials & Research**

Qualified Products List – Qualification Criteria

Section 606 – Guardrail

- B. ITEM 606.9512 – Temporary Impact Attenuation Device (redirective), Test Level 2**
- C. ITEM 606.9513 – Temporary Impact Attenuation Device (redirective), Test Level 3**
- D. ITEM 606.9522 – Temporary Impact Attenuation Device (non-redirective), Test Level 2**
- E. ITEM 606.9523 – Temporary Impact Attenuation Device (non-redirective), Test Level 3**

Specification

Temporary impact attenuation devices for traffic control shall be designed to meet the requirements of the National Cooperative Highway Research Program (NCHRP) Report 350 at a minimum Test Level 2 [70 km/h (43.5 mph)] or Test Level 3 [100 km/h (62.1 mph)] as specified in the item description.

Impact attenuation devices (redirective and non-redirective) shall be a product as included on the Qualified Products List unless allowed per 2.12.1.2 or specifically specified in the contract.

Impact attenuation devices for this category shall not be sand or water filled.

Required Submissions

QPL Product Submittal Form

The submitted form must be completely filled out and must be the current version of the form. The QPL Product Submittal Form can be obtained at www.nh.gov/dot/research.

Product Literature

Submit any product literature that is relevant to evaluation of the product.

List of other users

Submit a list of State transportation agencies that use or allow the use of the submitted product. As these products must stand up to winter maintenance activities, the States submitted shall be those with climates similar to New Hampshire.

Design criteria

The manufacturer shall submit data that includes the overall length, width, the number of bays or modules, connection details, the point at which redirection is provided (where length of need is established on the device), the performance category (redirective or non-redirective), maximum design speed and the NCHRP test level the attenuator was tested to.

Qualification Criteria

The product must meet the requirements of NCHRP 350 for the appropriate test level.

The Department will review submitted information to evaluate product characteristics related to design and maintenance requirements including but not limited to the following:

- Apparent durability and ability to stand up to winter maintenance activities.
- Time and effort needed to restore the device to fully operational condition.
- Footprint (width x length) of device
- Ease of relocating the device for use in a new location.
- Ability to attach to both beam guardrail and concrete barrier.

Approved by: *William R. Lambert*

Traffic Bureau Administrator

The Department continues to evaluate its qualification criteria as well as products that have been qualified against them, and reserves the right to revise the criteria and/or withdraw product qualification at any time for any reason without notice.